

**METHOD AND APPARUTUS FOR MULTI-BAND OPTICAL SWITCHING
USING MULTI-PUMP PARAMETRIC DEVICES**

ABSTRACT OF THE DISCLOSURE

5 A method of multiple-band switching using a multi-pump fiber parametric
switch is demonstrated. The switching architecture combines parametric band
amplification, wavelength conversion and selective signal conjugation, enabled
by temporal control of at least one pump of the multi-pump parametric device.
The switching speed of the present invention is limited by the rise time of the
10 controlled pump(s).